

APR 06 2009

PTO/SB/08 (09-06)

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Substitute form 1449/PTO

# **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

Date Submitted: April 6, 2009

(use as many sheets as necessary)

Sheet

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of

6

## **Complete if Known**

Application Number	10/584,243
Filing Date	11/29/2004
First Named Inventor	Masanori NAKAMURA
Art Unit	1793
Examiner Name	Cam N NGUYEN
Attorney Docket Number	040302-0567

## **U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
	A1	US-2001/0004832-A1	06-28-2001	HANAKI ET AL.	
	A2	US-2001/0006934-A1	07-05-2001	KACHI ET AL.	
	A3	US-2001/0021358-A1	09-13-2001	KIKUCHI ET AL.	
	A4	US-2002/0045543-A1	04-18-2002	TAKATORI ET AL.	
	A5	US-2003/0004054-A1	01-02-2003	ITO ET AL.	
	A6	US-2003/0083193-A1	05-01-2003	TAKAYA ET AL.	
	A7	US-2003/0167752-A1	09-11-2003	NIWA ET AL.	
	A8	US-2003/0181316-A1	09-25-2003	HIRAMOTO ET AL.	
	A9	US-2004/0055280-A1	03-25-2004	NISHIZAWA ET AL.	
	A10	US-2004/0254069-A1	12-16-2004	ITO, JUNJI	
	A11	US-2005/0170958-A1	08-04-2005	KIKUCHI ET AL.	
	A12	US-2005/0215429-A1	09-29-2005	WAKAMATSU ET AL.	
	A13	US-2005/0221978-A1	10-06-2005	SHIRATORI ET AL.	
	A14	US-2007/0155626-A1	07-05-2007	YASUDA ET AL.	
	A15	US-2007/0167319-A1	07-19-2007	SHIRATORI ET AL.	
	A16	US-2007/0203021-A1	08-30-2007	NAKAMURA ET AL.	
	A17	US-2007/0244001-A1	10-18-2007	WAKAMATSU ET AL.	
	A18	US-2,980,662-	04-18-1961	JEZL	
	A19	US-3,255,020-	06-07-1966	FERRELL	
	A20	US-3,266,477-	08-16-1966	STILES	
	A21	US-3,271,322-	09-06-1966	STILES	
	A22	US-3,357,916-	12-12-1967	SMITH	
	A23	US-3,388,077-	06-11-1968	HOEKSTRA	
	A24	US-3,478,329-	11-11-1969	ETIENNE DE RUDNAY	
	A25	US-3,531,329-	09-29-1970	SELWITZ	
	A26	US-3,649,566-	03-14-1972	HAYES ET AL.	
	A27	US-4,255,289-	03-10-1981	BALINSKY ET AL.	
	A28	US-4,255,290-	03-10-1981	FLAGG ET AL.	
	A29	US-4,261,862-	04-14-1981	KINOSHITA ET AL.	
	A30	US-4,274,981-	06-23-1981	SUZUKI ET AL.	
	A31	US-4,369,132-	01-18-1983	KINOSHITA ET AL.	
	A32	US-4,374,046-	02-15-1983	ANTOS	
	A33	US-4,425,261-	01-10-1984	STENIUS ET AL.	
	A34	US-4,444,721-	04-24-1984	OHKATA, ICHIZO	
	A35	US-4,495,304-	01-22-1985	YOO ET AL.	
	A36	US-4,539,311-	09-03-1985	HARRISON ET AL.	
	A37	US-4,548,921-	10-22-1985	GEUS ET AL.	
	A38	US-4,714,693-	12-22-1987	TARGOS	
	A39	US-4,716,087-	12-29-1987	ITO ET AL.	
	A40	US-4,738,947-	04-19-1988	WAN ET AL.	

Examiner  
Signature

/Cam N. Nguyen/

Date  
Considered

06/04/2009

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ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /CNN/

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Substitute for form 1449/PTO		<b>Complete if Known</b>	
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		Filing Date	11/29/2004
		First Named Inventor	Masanori NAKAMURA
		Art Unit	1793
		Examiner Name	Cam N NGUYEN
Sheet	2	of	6
		Attorney Docket Number	040302-0567

U.S. PATENT DOCUMENTS					
		Document Number			
	A41	US-4,758,418-	07-19-1988	YOO ET AL.	
	A42	US-4,765,874-	08-23-1988	MODES ET AL.	
	A43	US-4,793,797-	12-27-1988	KATO ET AL.	
	A44	US-4,839,146-	06-13-1989	CHO ET AL.	
	A45	US-4,904,633-	02-27-1990	OHATA ET AL.	
	A46	US-4,969,265-	11-13-1990	EHARA, HIDEHARU	
	A47	US-5,068,218-	11-26-1991	NISHIZAWA	
	A48	US-5,108,469-	04-28-1992	CHRIST, MICHAEL	
	A49	US-5,112,787-	05-12-1992	FALKE ET AL.	
	A50	US-5,122,496-	06-16-1992	VORLOP ET AL.	
	A51	US-5,248,650-	09-28-1993	SEKIBA ET AL.	
	A52	US-5,318,757-	06-07-1994	ABE ET AL.	
	A53	US-5,395,406-	03-07-1995	CLAVENNA ET AL.	
	A54	US-5,427,989-	06-27-1995	KANESAKA ET AL.	
	A55	US-5,446,003-	08-29-1995	AUGUSTINE ET AL.	
	A56	US-5,610,117-	03-11-1997	HORIUCHI ET AL.	
	A57	US-5,622,048-	04-22-1997	AOYAMA ET AL.	
	A58	US-5,640,847-	06-24-1997	NAKAJIMA ET AL.	
	A59	US-5,644,912-	07-08-1997	KAWAMURA	
	A60	US-5,677,258-	10-14-1997	KUROKAWA ET AL.	
	A61	US-5,750,458-	05-12-1998	KENNELLY ET AL.	
	A62	US-5,814,576-	09-29-1998	YAMAMOTO, SHINJI	
	A63	US-5,814,577-	09-29-1998	PARK ET AL.	
	A64	US-5,849,660-	12-15-1998	TAKEMOTO ET AL.	
	A65	US-5,911,961-	06-15-1999	HORIUCHI ET AL.	
	A66	US-5,916,839-	06-29-1999	PAK ET AL.	
	A67	US-5,977,012-	11-02-1999	KHARAS ET AL.	
	A68	US-6,047,544-	04-11-2000	YAMAMOTO ET AL.	
	A69	US-6,057,263-	05-02-2000	TAKAHASHI ET AL.	
	A70	US-6,066,410-	05-23-2000	AUER ET AL.	
	A71	US-6,066,587-	05-23-2000	KUROKAWA ET AL.	
	A72	US-6,069,111-	05-30-2000	YAMAMOTO ET AL.	
	A73	US-6,080,371-	06-27-2000	TANABE ET AL.	
	A74	US-6,083,467-	07-04-2000	TAKESHIMA ET AL.	
	A75	US-6,107,239-	08-22-2000	QIN ET AL.	
	A76	US-6,110,862-	08-29-2000	CHEN ET AL.	
	A77	US-6,172,000-B1	01-09-2001	CHATTHA ET AL.	
	A78	US-6,180,075-B1	01-30-2001	LINDNER ET AL.	
	A79	US-6,221,805-B1	04-24-2001	YAMASHITA ET AL.	
	A80	US-6,228,800-B1	05-08-2001	YAMAGUCHI ET AL.	
	A81	US-6,284,201-B1	09-04-2001	BUCK, ALFRED	
	A82	US-6,296,813-B1	10-02-2001	ISHII ET AL.	

Examiner Signature	/Cam N. Nguyen/	Date Considered	06/04/2009
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				First Named Inventor	Masanori NAKAMURA
				Art Unit	1793
				Examiner Name	Cam N NGUYEN
Sheet	3	of	6	Attorney Docket Number	040302-0567

U.S. PATENT DOCUMENTS					
		Document Number			
	A83	US-6,306,794-B1	10-23-2001	SUZUKI ET AL.	
	A84	US-6,335,305-B1	01-01-2002	SUZUKI ET AL.	
	A85	US-6,370,870-	04-16-2002	KAMIJO ET AL.	
	A86	US-6,444,610-	09-03-2002	YAMAMOTO, SHINJI	
	A87	US-6,475,446-	11-05-2002	HORIIKE ET AL.	
	A88	US-6,503,862-	01-07-2003	YAMAMOTO, SHINJI	
	A89	US-6,511,642-B1	01-28-2003	HATANAKA ET AL.	
	A90	US-6,514,905-B1	02-04-2003	HANAKI ET AL.	
	A91	US-6,518,213-	02-11-2003	YAMAMOTO ET AL.	
	A92	US-6,569,803-B2	05-27-2003	TAKEUCHI	
	A93	US-6,589,901-B2	07-08-2003	YAMAMOTO ET AL.	
	A94	US-6,623,716-B2	09-23-2003	SUGA ET AL.	
	A95	US-6,660,897-B1	12-09-2003	MARTCHAL-GEORGE ET AL.	
	A96	US-6,680,279-B2	01-20-2004	CAI ET AL.	
	A97	US-6,729,125-B2	05-04-2004	SUGA ET AL.	
	A98	US-6,756,336-B2	06-29-2004	KASAHARA ET AL.	
	A99	US-6,764,665-B2	07-20-2004	DEEBA ET AL.	
	A100	US-6,787,500-B2	09-07-2004	ITO ET AL.	
	A101	US-6,800,388-B2	10-05-2004	KANEKO ET AL.	
	A102	US-6,861,372-B2	03-01-2005	RUTH ET AL.	
	A103	US-6,861,387-B2	03-01-2005	RUTH ET AL.	
	A104	US-6,887,443-B2	05-03-2005	SUGA ET AL.	
	A105	US-6,887,444-B1	05-03-2005	YAMAMOTO, SHINJI	
	A106	US-6,896,857-B2	05-24-2005	NAKAMURA ET AL.	
	A107	US-6,926,875-B2	08-09-2005	HATANAKA ET AL.	
	A108	US-6,967,183-B2	11-22-2005	HAMPDEN-SMITH ET AL.	
	A109	US-7,029,514-B1	04-18-2006	YANG ET AL.	
	A110	US-7,041,866-B2	05-09-2006	GILLESPIE	
	A111	US-7,081,431-B2	07-25-2006	YAMASHITA ET AL.	
	A112	US-7,150,861-B2	12-19-2006	MORITA ET AL.	
	A113	US-7,351,679-B2	04-01-2008	ERI ET AL.	
	A114	US-RE 31,719-	10-30-1984	SONETAKA ET AL.	

UNPUBLISHED U.S. PATENT APPLICATION DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Application Document	Filing Date of Cited Document MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Serial Number-Kind Code <sup>2</sup> (if known)			
	A115	11/722275	06-20-2007	NAKAMURA ET AL.	

Examiner Signature	/Cam N. Nguyen/	Date Considered	06/04/2009
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FOREIGN PATENT DOCUMENTS						
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	A116	JP-07-246343-A	12-25-1984	NIPPON SHOKUBAI KAGAKU KOGYO CO., LTD.		Abst.
	A117	JP-10-216517-A	08-18-1998	TOYOTA MOTOR CORP.		Abst.
	A118	EP-1 494 304-A1	01-05-2005	NISSAN MOTOR CO., LTD.		
	A119	JP-2000-001119-A	01-07-2000	CALSONIC CORP.		Abst.
	A120	JP-2000-015098-A	01-18-2000	JAPAN SCIENCE & TECHNOLOGY CORP., ET AL.		Abst.
	A121	JP-2000-042411-A	02-15-2000	TOYOTA MOTOR CORP., ET AL.		Abst.
	A122	JP-2000-279824-A	10-10-2000	TANAKA PRECIOUS METAL IND., ET AL.		Abst.
	A123	JP-2001-198466-A	07-24-2001	TOYOTA MOTOR CORP.		Abst.
	A124	JP-2002-102703-A	04-09-2002	TOYOTA MOTOR CORP.		Abst.
	A125	JP-2003-080077-A	03-18-2003	DENSO CORP., ET AL.		Abst.
	A126	JP-2003-126694-A	05-07-2003	TOYOTA MOTOR CORP.		Abst.
	A127	JP-2003-144923-A	05-20-2003	TOYOTA MOTOR CORP.		Abst.
	A128	JP-2003-181290-A	07-02-2003	TOYOTA MOTOR CORP.		Abst.
	A129	JP-2003-181293-A	07-02-2003	TOYOTA MOTOR CORP.		Abst.
	A130	JP-2003-290658-A	10-14-2003	TOYOTA MOTOR CORP.		Abst.
	A131	JP-2003-290667-A	10-14-2003	TOYOTA MOTOR CORP.		Abst.
	A132	JP-2003-311128-A	11-05-2003	TOYOTA MOTOR CORP.		Abst.
	A133	JP-2004-174490-A	06-24-2004	MAZDA MOTOR CORP.		Abst.
	A134	WO-2005/063390-A1	07-14-2005	NISSAN MOTOR CO., LTD.		Abst.
	A135	WO-2005/063391-A1	07-14-2005	NISSAN MOTOR CO., LTD.		Abst.
	A136	JP-2005-305300-A	11-04-2005	TOYOTA MOTOR CORP.		Abst.
	A137	JP-3251009-B2	11-16-2001	TOYOTA CENTRAL RES & DEV LAB INC., ET AL.		Abst.
	A138	EP-0 466 984-A1	01-22-1992	UOP		
	A139	JP-59-230639-A	12-25-1984	NIPPON SHOKUBAI KAGAKU, ET AL.		Abst.
	A140	EP-0 931 590-B1	07-28-1999	MAZDA MOTOR CORP.		
	A141	EP-0 940 176-A2	09-08-1999	TOYOTA JIDOSHA KABUSHIKI KAISHA		
	A142	WO-97/09114-A1	03-13-1997	INSTITUTIONEN FOR KEMITEKNIK KEMISK TEKNOLOGI KTH		

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Sheet	5	of	6	Attorney Docket Number	040302-0567

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>6</sup>
	A143	A. Martínez-Arias et al., "Study of the lean NO <sub>x</sub> reduction with C <sub>3</sub> H <sub>6</sub> in the presence of water over silver/alumina catalysts prepared from inverse microemulsions," Applied Catalysts B: Environmental, Vol. 28, 2000, pages 29-41.	
	A144	H. WAKAMATSU et al., US PTO Office Action 11/578,295, 03-19-2009, 8 pgs.	
	A145	H. WAKAMATSU et al., US PTO Office Action 11/578,295, 10-02-2008, 15 pgs.	
	A146	H. WAKAMATSU, et al., US PTO Office Action 11/079,270, 03-04-2009, 6 pgs.	
	A147	H. WAKAMATSU, et al., US PTO Office Action 11/079,270, 05-12-2008, 7 pgs.	
	A148	H. WAKAMATSU, et al., US PTO Office Action 11/079,270, 07-21-2008, 5 pgs.	
	A149	H. WAKAMATSU, et al., US PTO Office Action 11/079,270, 08-25-2008, 20 pgs.	
	A150	H. YASUDA et al., US PTO Office Action 10/586,533, dated 07-14-2008, 6 pgs.	
	A151	H. YASUDA et al., US PTO Office Action 10/586,533, dated 11-18-2008, 16 pgs.	
	A152	K. SHIRATORI, et al., US PTO Office Action 10/584,346, dated 07-11-2008, 5 pgs.	
	A153	K. SHIRATORI, et al., US PTO Office Action 10/584,346, dated 11-18-2008, 19 pgs.	
	A154	K. SHIRATORI, et al., US PTO Office Action 11/079,377, dated 03-12-2009, 7 pgs.	
	A155	K. SHIRATORI, et al., US PTO Office Action 11/079,377, dated 05-08-2008, 6 pgs.	

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Substitute for form 1449/PTO		<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>		<b>Application Number</b>	10/584,243
		<b>Filing Date</b>	11/29/2004
Date Submitted: April 6, 2009		<b>First Named Inventor</b>	Masanori NAKAMURA
		<b>Art Unit</b>	1793
(use as many sheets as necessary)		<b>Examiner Name</b>	Cam N NGUYEN
		<b>Attorney Docket Number</b>	040302-0567
Sheet	6	of	6

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>6</sup>
	A156	K. SHIRATORI, et al., US PTO Office Action 11/079,377, dated 07-28-2008, 18 pgs.	
	A157	M. CHE et al., "A Study of the Chemisorption of Nitric Oxide on PdY Zeolite, Evidence for a Room Temperature Oxidative Dissolution of Pd Crystallinities," The Journal of Physical Chemistry, Vol. 60, No. 21, 1976, 11 pgs.	
	A158	M. NAKAMURA et al., US PTO Office 10/589,890, dated 07-15-2008, 5 pgs.	
	A159	M. NAKAMURA et al., US PTO Office 10/589,890, dated 11-19-2008, 13 pgs.	
	A160	PH. BUFFAT AND J-P BOREL, "Size effect on the melting temperature of gold particles," Physical Review A, June 1976, Vol. 13, No. 6, 12 pgs.	
	A161	R. WILLIS, "PUMICE, Porous Volcanic Rock," Online, XP002364316, URL:http://ceramic-materials.com/ceramat/material/2009.html>.	
	A162	S. ERIKSSON, et al., "Preparation of Catalysts from Microemulsions and Their Applications in Heterogeneous Catalysis," Applied Catalysis A: General, Vol. 265, No. 2, July 8, 2004, pp. 207-219.	
	A163	T. Kinoshita et al., "Magnetic evaluation of nanostructure of gold-iron composite particles synthesized by a reverse micelle method," Journal of Alloys and Compounds, Vol. 359, No. 1-2, Sept. 22, 2003, pages 46-50.	
	A164	T. Shimizu et al., "Size Evolution of Alkanethiol-Protected Gold Nanoparticles by Heat Treatment in the Solid State", J. Phys. Chem. B, 107, 2003, pages 2719-2724.	
	A165	W.Y. Kim et al., "Methanol synthesis from syngas over supported palladium catalysts prepared using water-in-oil microemulsion," Applied Catalysis A: General, Vol. 169, 1998, pages 157-164.	

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